

Operation Manual



IN3526vi - Composite / S-Video Switcher with Vertical Interval Switching





Installation and Safety Instructions

For Models without a Power Switch:

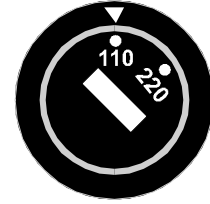
The socket outlet shall be installed near the equipment and shall be accessible.

For Models with 110 / 220V Power Selector:

Caution: Before applying power to this unit, the voltage selector must be set to the appropriate setting to match local A/C line voltage. Improper setting of the voltage selector may cause damage to the unit and create a potential fire hazard.

The voltage selector is a round switch located next to the A/C power input connector which looks like this:

Using a straight slot screwdriver or small coin, rotate the selector to the correct position so that the arrow lines up with 110 or 220 as appropriate for local power line voltage as indicated in the chart below:



Local A/C Voltage	Voltage Selector Setting
110 ~ 120 VAC	110
220 ~ 240 VAC	220

For all Models:

No serviceable parts inside the unit. Refer service to a qualified technician.

For Models with Internal or External Fuses:

For continued protection against fire hazard, replace only with same type and rating of fuse.

For IN2001 / IN3234 / IN3236 / IN3502 / IN3504 / IN3506 / IN3562 / IN3564 / IN3566 / IN3572 / IN3574 / IN3576:

Caution: Double pole / neutral fusing.

For all Models with Integral Lithium Battery:

Caution: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.



Instructions d'installation et de sécurité

Pour les modèles sans interrupteur de courant:

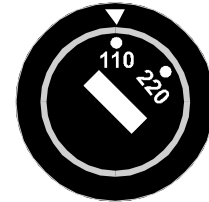
La prise de courant d'alimentation sera installé près de l'équipement et sera accessible.

Pour les modèles avec un sélecteur d'alimentation 110V/220V:

Attention: Avant de connecter l'appareil au circuit d'alimentation, le sélecteur de courant doit être positionné sur la sélection appropriée correspondant au voltage du circuit de courant alternatif local. Une mauvaise sélection peut engendrer des dommages à l'appareil et créer un danger d'incendie.

Le sélecteur d'alimentation est un commutateur rond positionné près du connecteur d'alimentation. Il se représente comme suit:

A l'aide d'un tourne-vis plat ou d'une pièce de monnaie, le sélecteur peut être tourné dans la position adéquate en veillant que la flèche corresponde avec 110 ou 220, en fonction de la valeur du circuit de courant local. (Voir tableau ci-dessous)



Circuit local AC	Position Sélecteur
110 ~ 120 VAC	110
220 ~ 240 VAC	220

Pour tout les modèles:

Pas de composants à entretenir à l'intérieur. Confiez toute réparation à un technicien qualifié.

Pour les modèles équipés de fusibles internes ou externes:

Afin d'éviter tout danger d'incendie, ne remplacer qu'avec le même type et la même valeur de fusible.

Pour IN2001 / IN3234 / IN3236 / IN3502 / IN3504 / IN3506 / IN3562 / IN3564 / IN3566 / IN3572 / IN3574 / IN3576:

Attention: Double pôle / fusible au neutre.

Pour tout les modèles avec une batterie au lithium interne:

Attention: Danger d'explosion si la batterie est incorrectement remplacée. Ne remplacez la batterie qu'avec le même modèle, ou avec un modèle recommandé par le constructeur. Traitez les batteries usagées selon les instructions du fabricant, ou selon les normes écologiques en vigueur.



Installations und Sicherheitshinweise

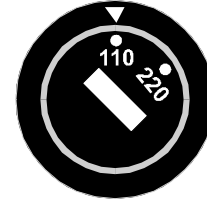
Für Geräte ohne Netzschalter:

Die Netzsteckdose soll in der Nähe des Gerätes installiert und frei zugänglich sein.

Für Geräte mit 110 / 220V Spannungswähler:

Achtung: Bevor Sie dem Gerät Spannung zuführen, muß der Spannungswähler entsprechend der Spannung des lokalen Wechselspannungsnetzes eingestellt werden. Die falsche Stellung des Spannungswählers kann eine Beschädigung des Gerätes und möglicherweise ein Feuer verursachen.

Der Spannungswähler ist ein runder Schalter in der Nähe der Netzeingangsbuchse mit folgendem Aussehen:



Drehen Sie den Wähler mit einem normalen Schraubenzieher oder einer kleinen Münze so, daß der Pfeil auf die 110 oder 220 zeigt, entsprechend der Spannung Ihres lokalen Netzes wie hier angezeigt:

Lokale Netzwechselspannung	Stellung des Spannungswählers
110 ~ 120 V	110
220 ~ 240 V	220

Für alle Geräte:

Keine Wartung innerhalb des Gerätes notwendig. Reparaturen nur durch einen Fachmann!

Für Geräte mit interner oder externer Sicherung:

Für dauernden Schutz gegen Feuergefahr darf die Sicherung nur gegen eine andere gleichen Typs und gleicher Nennleistung ausgewechselt werden.

Für IN2001 / IN3234 / IN3236 / IN3502 / IN3504 / IN3506 / IN3562 / IN3564 / IN3566 / IN3572 / IN3574 / IN3576:

Achtung: Allpolige Absicherung

Für alle Geräte mit eingebauter Lithium Batterie:

Achtung: Explosionsgefahr bei falschem Batterieeinsatz. Batterie nur ersetzen durch den gleichen oder entsprechenden Typ wie vom Hersteller empfohlen. Entsorgung verbrauchter Batterien nur nach den Anweisungen des Herstellers.



Instalacion E Instrucciones de Seguridad

Modelos Sin Interruptor:

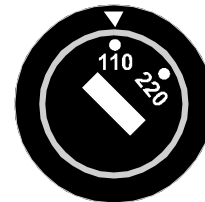
La conexión debe ser instalada cerca del equipo y debe ser accesible.

Modelos con Selector de Voltaje de 110/220V:

Precaución: Antes de operar esta unidad, el selector de voltaje debe instalarse de forma que corresponda a la línea de voltaje local. Instalación inadecuada del selector de voltaje puede causar daño a la unidad y originar un incendio.

El selector de voltaje es un cambio vía redondo localizado cerca de la conexión eléctrica, como se ve en el dibujo:

Use un destornillador común o una moneda pequeña, mueva el selector a la posición correcta, de forma que las flechas indiquen 110 o 220 de acuerdo con el voltaje local, como está indicado a continuación.



Voltaje Local A/C	Selector de Voltaje
110 ~ 120 VAC	110
220 ~ 240 VAC	220

Para Todos Los Modelos:

Dentro de la unidad, no hay partes para reparar. Llame un técnico calificado.

Modelos con Fusibles Internos o Externos:

Para prevenir un incendio, reemplace solo con el mismo tipo de fusible.

Modelos IN2001 / IN3234 / IN3236 / IN3502 / IN3504 / IN3506 / IN3562 / IN3564 / IN3566 / IN3572 / IN3574 / IN3576:

Precaución: Double Polo / Fusible Neutral.

Modelos con Batería de Lithium Interna:

Precaución: Peligro de explosión si la batería es reemplazada incorrectamente. Reemplace solamente con la misma clase de batería, o una equivalente recomendada por el fabricante. Deseche las baterías usadas de acuerdo con las instrucciones del fabricante.

CE COMPLIANCE

All products exported to Europe by Inline, Inc. after January 1, 1997 have been tested and found to comply with EU Council Directive 89/336/EEC. These devices conform to the following standards:

EN50081-1 (1991), EN55022 (1987)

EN50082-1 (1992 and 1994), EN60950-92

Shielded interconnect cables must be employed with this equipment to ensure compliance with the pertinent Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC) standards governing this device.

**FCC COMPLIANCE**

This device has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide against harmful interference when equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

DESCRIPTION

The **IN3526vi** is a six input and one output switcher designed for composite or S-Video signals. The **IN3526vi** switcher routes one of several video source signals to an attached video recorder, monitor, projector or other video equipment. Users may select the desired input channel using front panel buttons or via remote control. The **IN3526vi** switcher offers easy operation and the following features:

- ◆ 100 MHz Bandwidth - allows the unit to be used with high resolution computer video signals as well as NTSC/PAL/SECAM composite and S-Video signals
- ◆ Vertical Interval Switching
- ◆ Front Panel Channel Selection Controls and LED Indicators
- ◆ Auto-sequencing of selected inputs in time intervals of 2.5 to 30 seconds
- ◆ Contact Closure and RS-232 control port for remote selection of input channels
- ◆ Cascading capability to create larger switching configurations
- ◆ I/O port to power and control an **IN3546R** 6 in, 1 out Stereo Audio Switcher for audio follow video applications.

COMPATIBILITY

The **IN3526vi** switcher will switch a wide variety of signals. While the unit was primarily designed for Composite Video and S-Video (Y/C) signals, it can also switch high resolution computer video signals. The **IN3526vi** shares the composite video and Luma (Y) channel, so it is not designed to handle both signal formats at the same time. However, if your display device can switch between composite and S-Video, you can have some inputs be composite and others be S-Video (although you will need to switch your display to view the proper signal.)

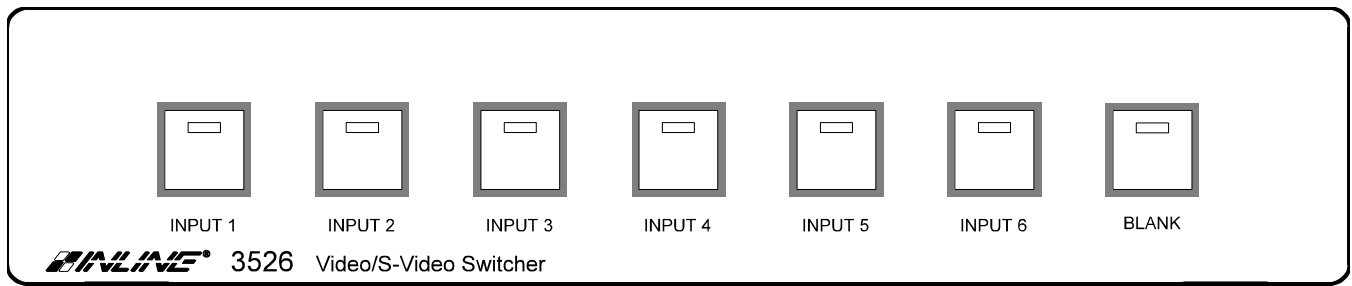
INSTALLATION

This section offers step-by-step instructions for installing an **IN3526vi** switcher.

1. Connect all sources to the **IN3526vi** input connectors. Unused inputs do not need to be terminated.
2. Connect the **IN3526vi** output to the display device.
3. Connect remote control system if required.
4. Apply AC power to the unit.
5. Configure the unit for special applications (see Power-On Settings for more information.)

OPERATION

FRONT PANEL OPERATION



Input Selection

The **IN3526vi** switcher provides seven front panel buttons that may be used to select the desired input channel or blank the output (no input selected.) Any time the unit is powered up, Input 1 is automatically selected. In order to select a different input, press the corresponding input button and the appropriate green LED will light to indicate the current active channel. Input channels may also be selected remotely by using an optional **IN3590** wired remote or a control system (see **Remote Control Operation** for more details).

Blank

You can blank the output by pressing the **BLANK** button. If you press the button again, the previous input will be selected. For example, let's say you currently have Input 3 selected. If you press **BLANK**, the output will be blanked. If you press **BLANK** again, Input 3 will be selected. You can also exit blank by selecting another input.

There are two options for selecting what will be sent to the output when **BLANK** is selected (see Power-On Settings for more information):

1. Send nothing to the output.
2. Send sync to the output with no video (the sync is stripped off of Input 1.)

REMOTE CONTROL OPERATION

The **IN3526vi** switcher has an I/O port and an RS-232 port. The functions of these ports are described in this section.

I/O Port

Channels can be selected through the remote port by providing contact closures between the appropriate pins. The port also includes a +5V power supply and tally outputs, which can be used to power and control an **IN3546R** audio switcher to provide audio follow video switching. Several contact closure type control devices are available including:

IN3590 - An optional hard wired remote designed to work with **IN3500 Series** switchers.

Control System - many control systems are capable of providing contact closures.

Control Parameters

In order to select a channel, the channel select pin (pins 1 - 6 and pin 8) must be connected to Common (pin 7).

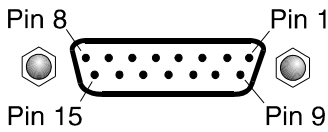
The contact closures may be momentary or continuous (latching). However, if the closure is latching, it must be opened before another channel can be selected.

Example: To switch to Input Channel #4, apply a contact closure between Pin 4 and Pin 7.

Tally Output

The I/O port also provides tally outputs (pins 10 - 15) which may be used to trigger other devices (such as the **IN3546R**), or provide feedback to a control system. When a channel is selected, either from the front panel the I/O port or RS-232, the Tally Output for that channel is switched on. The Tally Output is high when off, and goes low when switched on.

Control Port Pin Outs

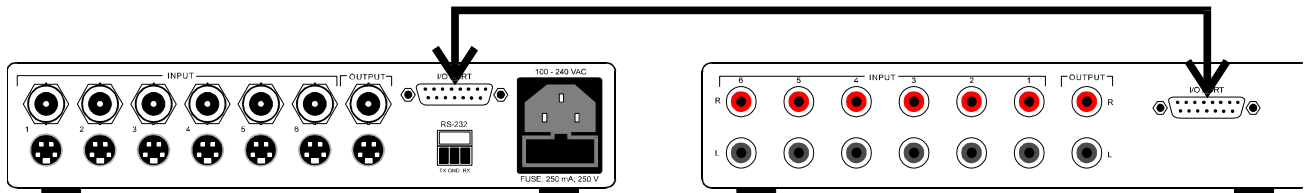


The I/O port is a Female 15 Pin D connector with the following pin outs:

- | | | | |
|-------|----------------|--------|--------------------------|
| Pin 1 | Select Input 1 | Pin 9 | +5 volts DC |
| Pin 2 | Select Input 2 | Pin 10 | Tally output for Input 6 |
| Pin 3 | Select Input 3 | Pin 11 | Tally output for Input 5 |
| Pin 4 | Select Input 4 | Pin 12 | Tally output for Input 4 |
| Pin 5 | Select Input 5 | Pin 13 | Tally output for Input 3 |
| Pin 6 | Select Input 6 | Pin 14 | Tally output for Input 2 |
| Pin 7 | Common | Pin 15 | Tally output for Input 1 |
| Pin 8 | Select Blank | | |

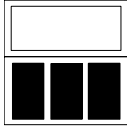
Using the IN3546R Stereo Audio Switcher

The **IN3546R** Stereo Audio Switcher may be attached to the **IN3526vi** via the REMOTE CONTROL port. This provides a +5V power supply for the **IN3546R** Switcher and a control link. When the **IN3546R** is attached to the control port using an **IN9112** control link cable, the **IN3546R** will automatically switch to the appropriate input channel, mirroring the input selected on the attached RGBS switcher and adding audio-follow-video capability to the switcher.



Using RS-232 Control

RS-232



TX GND RX

The **IN3526vi** has an RS-232 ports which will accept serial commands from a control system, computer serial port, or any other device capable of sending out serial ASCII commands at compatible baud rates. All switching and most configuration and set-up parameters can be controlled using RS-232 commands.

Communication Protocol:

The baud rate is selectable from 1200 to 19200 baud. Communication parameters are as follows:

1200 baud (Factory default setting)
 No Parity
 8 data bits
 1 stop bit

Protocol Structure:

All commands sent to the unit must contain a leading character, the actual command, and an ending character. Each command must be completely executed by the **IN3526vi** before it will accept a new command. When a command is executed, the unit provides the response [OK] to indicate that the command was received and executed. The response [ERR] indicates that there was a problem and the command was not executed.

The **IN3526vi** can recognize one of four sets of leading and ending characters, also called the Command Codes. These are: [] { } () < >. The factory default for the Command Code is []. The Command code can only be changed via RS-232.

A complete command string consists of:

[The leading character
 CH2 The actual command.
] The ending character

Some sample commands are as follows:

[CH1] Select Input 1
 [FP0] Disable the front panel operation

CONTROLLING MULTIPLE INLINE PRODUCTS

Many **INLINE** products such as the **IN3526vi**, **PATHFINDER**, and the **IN1024/IN1224/IN1424** scan doublers use similar communication protocol structures. By setting each unit to a different Command Code, up to four **INLINE** products can be controlled independently by a single RS-232 serial control port (Note: An RS-232 distribution amplifier may be required.)

ADVANCED SETTINGS

The **IN3526vi** has features that can be of benefit in some applications. These features can be enabled/disabled via power-on or RS-232 (see those sections for more details.)

VERTICAL INTERVAL SWITCHING

Vertical interval switching can eliminate visual glitches when switching between different sources. This is accomplished by waiting and switching the input during the vertical interval when no image is being displayed. However, this is only useful when all input signals are genlocked together. Vertical interval switching can be enabled or disabled via a power-on setting.

The **IN3526vi** uses the sync signal from input 1 to generate its sync reference. When a switch is made, the unit waits for the next vertical sync pulse and then executes the switch. If a vertical sync pulse is not received within approximately 71 msec (the time for about 4 fields), the switch is made.

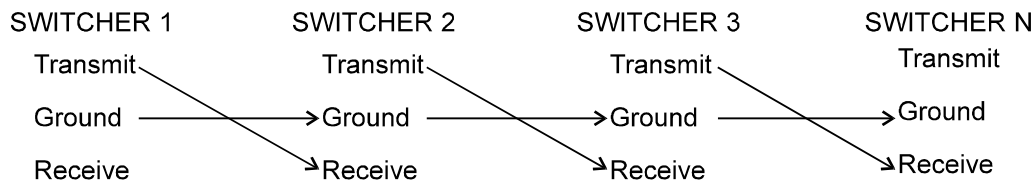
SCAN MODE

When set to the Scan mode, the **IN3526vi** automatically switches the inputs at a certain interval. The inputs to be selected can be set to all inputs or the first so many inputs (such as inputs 1, 2 and 3.) The time interval can be set to approximately 2.5, 5, 7.5, 10, 15, 20 or 30 seconds, and is the same interval for all inputs.

When the auto-sequencing is active, none of the input buttons function except for the BLANK button. The auto-sequencing can be paused by pressing the BLANK button. While paused, you can select any input by pressing the desired input button. To resume the auto-sequencing, simply press the BLANK button again.

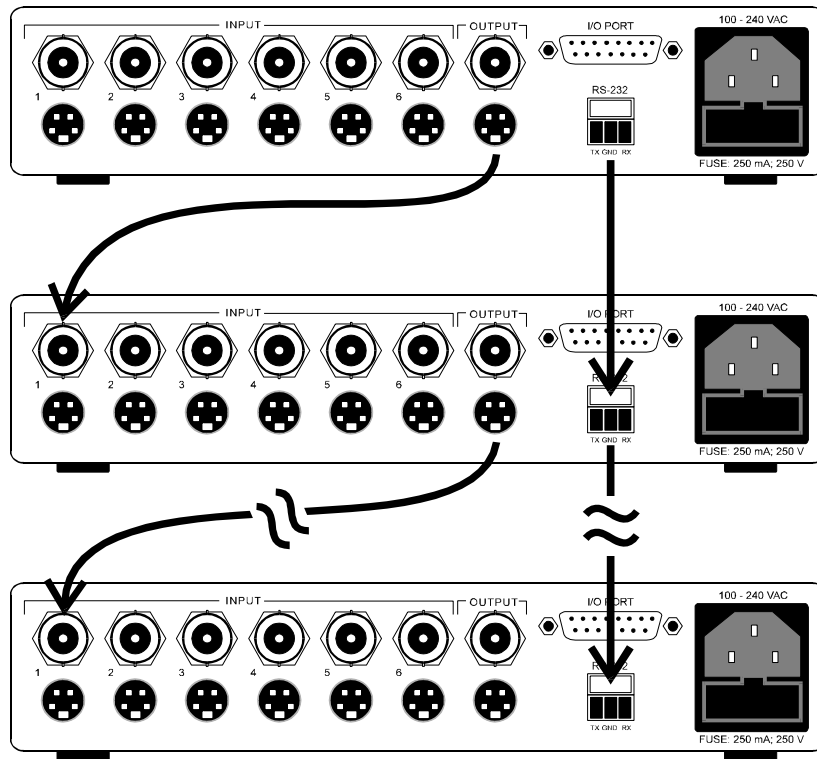
MASTER / SLAVE SWITCHER

Large switching systems can be configured by cascading multiple **IN3526vi** switchers. Connect the output of the first switcher to Input 1 of the next switcher and continue for as many switchers as you are cascading. Also, connect the RS-232 Transmit pin of the first switcher to the RS-232 Receive pin of the next switcher and continue for as many switchers as you are cascading.



Lastly, you need to configure all switchers except the last one as a Master switcher. When an **IN3526vi** is set-up as a Master switcher, it transmits the RS-232 command [**CH1**] every time a switch occurs. This command causes the next switcher to switch to channel 1, and this proceeds for all down-stream switchers so that the selected channel is sent to the output. You can set an **IN3526vi** as a Master or Slave switcher via a Power-On Setting. (Note: All switchers must be set for the same baud rate and command codes for cascading to operate properly.)

A Slave switcher does not send out any RS-232 command when a switch occurs. This is the default mode of operation.



POWER-ON SETTINGS

The power-on settings set the **IN3526vi** for specific applications. The installing technician will generally set these settings when the unit is first installed and rarely changed. Power-On settings are selected by holding down a specific front panel button while applying power to the unit and holding the button for approximately 3 seconds. These settings are not selectable when the unit is already powered up (except through RS-232 commands.) Once set, these settings are stored in the **IN3526vi** so that the unit will return to this mode on power down/up.

Reset to Factory Default Settings

Hold down the INPUT 1 button while applying power to the unit. This will reset the unit to the following state:

- Front Panel operation enabled
- Vertical Interval switching off
- Slave Switcher operation
- 1200 baud
- “[]” Command codes
- Normal switching operation (scanning off)
- Blank sends nothing to the output

Vertical Interval Switching

Hold down the INPUT 2 button while applying power to the unit. This will enable vertical interval switching. The unit uses the sync signal from Input 1 to determine when to switch. The vertical interval switching can be disabled by resetting the unit to Factory Default.

RS-232 Operation Only Hold down the INPUT 3 button while applying power to the unit. The front panel and contact closure remote control will be disabled. The only way to switch the unit is via RS-232 control. The front panel can be enabled via RS-232 or by resetting the unit to Factory Default.

Master Switcher Hold down the INPUT 4 button while applying power to the unit. This will set the unit up as a master switcher (see Master/Slave Operation)

Scan Enable and Setup Hold down the INPUT 5 button while applying power to the unit. Hold the button until the INPUT 6 LED turns on. Upon releasing the button, the BLANK and INPUT 6 LEDs will begin to flash (if you have a signal on Input 6 it will flash on your screen.) Press one of the input buttons to select the inputs to scan:

INPUT 1	Disable Scanning
INPUT 2	Scan Inputs 1 - 2
INPUT 3	Scan Inputs 1 - 3
INPUT 4	Scan Inputs 1 - 4
INPUT 5	Scan Inputs 1 - 5
INPUT 6	Scan Inputs 1 - 6

The BLANK and INPUT 6 LEDs will now begin flashing at a slower rate. Press one of the input buttons to select the scan time interval:

INPUT 1	2.5 seconds
INPUT 2	5 seconds
INPUT 3	7.5 seconds
INPUT 4	10 seconds
INPUT 5	15 seconds
INPUT 6	20 seconds
BLANK	30 seconds

Baud Rate Selection Hold down the BLANK button while applying power to the unit. Hold the button until the INPUT 6 LED turns on. Upon releasing the button, the BLANK and INPUT 6 LEDs will begin to flash (if you have a signal on Input 6 it will flash on your screen.) . Press one of the input buttons to select the baud rate shown below.

INPUT 1	1200 Baud
INPUT 2	2400 Baud
INPUT 3	4800 Baud
INPUT 4	9600 Baud
INPUT 5	19200 Baud

Blank Setup Hold down the BLANK button while applying power to the unit. Hold the button until the INPUT 6 LED turns on. Upon releasing the button, the BLANK and INPUT 6 LEDs will begin to flash (if you have a signal on Input 6 it will flash on your screen.) Press INPUT 6 or BLANK button to select the BLANK setup:

BLANK	Send nothing to output when BLANK is selected
INPUT 6	Send sync from INPUT 1 to output when BLANK is selected

RS-232 COMMAND PROTOCOL

Command*	Function	Response*
ACI3	Set baud rate to 1200, default setting	OK
ACI4	Set baud rate to 2400	OK
ACI5	Set baud rate to 4800	OK
ACI6	Set baud rate to 9600	OK
ACI7	Set baud rate to 19200	OK
BLANK0	Blank output (no input selected)	OK or CH1
BLANK1	Un-blank output (selects previous input)	OK or CH1
CH0	Blank output (same as pressing the front panel BLANK button)	OK or CH1
CH1	Select Input 1	OK or CH1
CH2	Select Input 2	OK or CH1
CH3	Select Input 3	OK or CH1
CH4	Select Input 4	OK or CH1
CH5	Select Input 5	OK or CH1
CH6	Select Input 6	OK or CH1
CMDCD0	Select "[" & "]"	OK
CMDCD1	Select "{" & "}"	OK
CMDCD2	Select "(" & ")"	OK
CMDCD3	Select "<" & ">"	OK
SCAN0	Disable scan mode	OK
SCAN1	Enable scan mode	OK
SCAN x	Configure scan to scan up to channel x where $x = 2$ to 6.	OK
SCANT x	Set scan time as follows: $x = 1$: 2.5 seconds $x = 2$: 5 seconds $x = 3$: 7.5 seconds $x = 4$: 10 seconds $x = 5$: 15 seconds $x = 6$: 20 seconds $x = 7$: 30 seconds	OK
FP	Enable/Disable the front panel (toggle)	OK
FP0	Disable the front panel	OK
FP1	Enable the front panel	OK
INF0	Get the firmware version	IN3526VI V1.0
INF1	Get the currently selected input	0 to 6 (0 is for Blank)

* Command codes are not shown for clarification purposes.

RS-232 SAMPLE COMMANDS

Description	Command	Response
Switch to Input 2 (for a Slave switcher)	[CH2]	[OK]
Switch to Input 2 (for a Master switcher)	[CH2]	[CH1]
Get status of input selected	[INF1]	[2]
Disable Front Panel operation	[FP0]	[OK]
Change baud rate to 4800	[ACI5]	[OK]
Change command codes to { }	[CMDCD1]	{OK}

UNIVERSAL POWER SUPPLY

The **IN3526vi** switcher employs a universal (switch mode) power supply which automatically adjusts to accept input voltages worldwide. Input voltages can range between 90 and 260 VAC and the frequency may range from 47 to 63 Hz. The power supply entry module uses an IEC standard male connector for power connection. U.S domestic units are shipped with a standard IEC female to Edison male power cable.

Changing Fuses

The power entry module includes a quick-change fuse holder. This holder contains the main fuse and a spare. If the unit does not power-up, check the fuse. If the fuse is blown:

1. Remove the power cord from the unit.
2. Use a flat blade screwdriver to pull out the fuse holder.
3. Replace the blown fuse with the spare.
4. Replace the spare fuse with a new 125 mA, 250 V fuse.
5. Push the fuse holder back into the casing.

SPECIFICATIONS

IN3526vi Composite/S-Video Switcher	
Inputs	
Connector type	Six BNC female for composite video Six 4 pin mini-din female for S-Video
Signal Compatibility	Composite Video, S-Video (Y/C), Monochrome with Sync
Output	
Connector type	One BNC female for composite video One 4 pin mini-din female for S-Video
Bandwidth	300 MHz @ -3dB
Power	
Universal Power Supply	90 - 260 VAC; 47 to 63 Hz.
Power Consumption	3 Watts maximum
Fuse	250 VAC, 125mA
Dimensions	
Height x Width x Depth	1.75" x 8.5" x 6.5"

Optional Accessories	
Stereo Audio Switcher	IN3546R Stereo Audio Switcher - Featuring 6 Inputs and 1 Output, the IN3546R adds stereo audio -follow-video capabilities to IN3500 Series Switchers. The IN3546R attaches to the IN3500 Series I/O port and receives both power and switching commands from the control port.
Control	IN3590 Wired Remote Control with 25' Long Cable. Allows Remote Channel Selection for IN3500 Series Switchers

WARRANTY

- ◆ INLINE warrants the equipment it manufactures to be free from defects in materials and workmanship.
- ◆ If equipment fails because of such defects and INLINE is notified within two (2) years from the date of shipment, INLINE will, at its option, repair or replace the equipment at its plant, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications.
- ◆ Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of re-shipment to the Buyer.
- ◆ **This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.**

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